

Abstract

The present invention relates to a device for ascertaining the charge able to be drawn from an energy store, in particular a battery, up to a specified cutoff. A particularly precise charge prediction may be achieved if a mathematical energy store model is used, which mathematically represents the electrical properties of the energy store and with the aid of which a charge predictor (2) calculates the charge able to be drawn in the case of a specified discharge current ($I_{\text{Batt,ent1}}$), the charge predictor (2) being connected with a state variable and parameter estimator (1), which ascertains state variables and/or parameters for the mathematical energy store model from current performance quantities ($U_{\text{Batt}}, I_{\text{Batt}}, T_{\text{Batt}}$) of the energy store.

Figure 1